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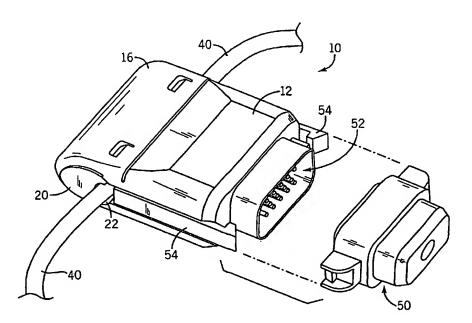
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[Continued on next page]

(54) Title: BATTERY MONITORING SYSTEM AND METHOD



(57) Abstract: A battery monitoring system includes a component for determining the magnitude of current flowing through a battery cable based on a magnetic field produced by the current. The component is configured to provide an output signal representative of the magnitude of current for use in characterizing the battery. A method for characterizing a battery utilizing a battery monitoring system includes inferring a magnitude of battery current based on a magnetic field generated by current flowing through a battery cable coupled to the battery. The battery monitoring system is adapted to characterize the battery utilizing at least one mathematical construct.

Declarations under Rule 4.17:

as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched IEEE			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST, STN			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
A	US 4,947,123 (MINEZAWA) 7 August 1990, the whole disclosure		1-25
Α	US 6,049,141 (SIEMINSKI et al) 11 April 2000, the whole disclosure		1-25
A	US 6,452,361 B2 (DOUGHERTY et al) 17 September 2002, the whole disclosure		1-25
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